












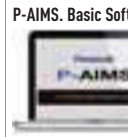


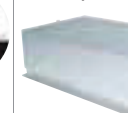
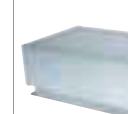

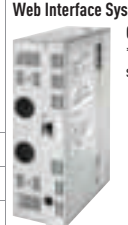


Operation System	Individual Control Systems						
Requirements	Control for hotel application (for VRF)		Wired remote controller		Wireless remote controller	Quick and easy operation	
External appearance						 	
Type, model name	Intelligent Controller		Normal operation	Design wired remote controller	Wireless remote controller	Simplified remote controller	Backlit remote controller
	PAW-RE2C3-WH PAW-RE2C3-GR PAW-RE2C3-MOD-WH PAW-RE2C3-MOD-GR PAW-RE2C3-LON-WH PAW-RE2C3-LON-GR	Stand-Alone White Stand-Alone Grey Modbus White Modbus Grey LonWorks White LonWorks Grey	CZ-RTC2	CZ-RTC3 	CZ-RWSU2 // CZ-RWSY2 // CZ-RWSL2 // CZ-RWSC3 // CZ-RWST2 // CZ-RWST3 // CZ-RWSK2	CZ-RE2C2	CZ-RELC2
Econavi Control	—			✓	—	—	—
Power consumption monitor	—			✓ ²	—	—	—
Built-in Thermostat	✓			✓	✓	✓	✓
I/O which can be controlled	1 indoor unit			1 group, 8 units	1 group, 8 units	1 group, 8 units	
Use limitations	—			- Up to 2 controllers can be connected per group	- Up to 2 controllers can be connected per group	- CZ-RE2C2: up to 2 controllers can be connected per group - CZ-RELC2: can not operate other (SUB) remo-con	
Function ON/OFF	✓			✓	✓	✓	
Mode setting	AUTO			✓	✓	✓	
Fan speed setting	✓			✓	✓	✓	
Temperature setting	✓			✓	✓	✓	
Air flow direction	—			✓	✓ ¹	✓ ¹	
Permit/Prohibit switching	✓			—	—	—	
Weekly program	—			✓	—	—	

1. Setting is not possible when a remote control unit is present (use the remote control for setting). 2) Only for PACi Elite except 50 type. * All specifications subject to change without notice.

Control systems for ECOi, ECO G and PACi

A wide variety of control options to meet the requirements of different applications.

Timer Operation	Centralized Control Systems					
Daily and weekly program	Operation with various function from center station	Only ON/OFF operation from center station	Simplified load distribution ratio (LDR) for each tenant	BMS System. PC Base	Connection with 3rd Party Controller	
				P-AIMS. Basic Software 	Seri-Para I/O unit for outdoor unit CZ-CAPDC2 	
Schedule timer	System controller	ON/OFF Controller	Intelligent Controller (Touch screen panel)	CZ-CSWKC2		
CZ-ESWC2	CZ-64ESMC2	CZ-ANC2	CZ-256ESMC2 (CZ-CFUNC2)	Optional software  CZ-CSWAC2 for Load distribution. CZ-CSWWC2 for Web application. CZ-CSWGC2 for Object layout display. CZ-CSWBC2 for BAC net software interface. *PC required (field supply)	Local adaptor for ON/OFF control CZ-CAPC2 	
—	—	—	—		MINI Seri-Para I/O Unit CZ-CAPBC2 	
—	—	—	—		Communication Adaptor CZ-CFUNC2 	
64 groups, maximum 64 units	64 groups, maximum 64 units	16 groups, maximum 64 units	64 units x 4 systems, max. 256 units	Web Interface Systems CZ-CWEBC2 *PC required (field supply) 		
<ul style="list-style-type: none"> Required power supply from the system controller When there is no system controller, connection is possible to the T10 terminal of an indoor unit 	<ul style="list-style-type: none"> Up to 10 controllers, can be connected to one system Main unit/sub unit (1 main unit + 1 sub unit) connection is possible Use without remote controller is possible 	<ul style="list-style-type: none"> Up to 8 controllers (4 main units + 4 sub units) can be connected to one system Use without remote controller is impossible 	<ul style="list-style-type: none"> A communication adaptor (CZ-CFUNC2) must be installed for three or more systems 			
—	✓	✓	✓			
—	✓	—	✓			
—	✓	—	✓			
—	✓	—	✓			
—	✓ ¹	—	✓ ¹			
—	✓	✓	✓			
✓	—	—	✓			



N°1
FOR HOTEL APPLICATIONS
ALL IN ONE!

More easier to install, cheaper to integrate one only control to integrate all devices

New control for hotel application: Nice, easy and cost effective!

Panasonic has developed an innovative line up of remote controls specially designed for applications:

- Easy to install
- Cost effective installation as all electrical cable are centralized on this remote
- Architect inspired attractive design
- Direct connection to the Indoor unit with most of the functions of the indoor unit
- 3 options available: Stand-Alone, Modbus or LonWorks communication
- 2 frame colours: White and aluminium

From this remote control: The lighting, card contact, motion detector, window contact and the air conditioning are controlled.

Energy saving functions included on the device: • Turns Off air conditioning and lighting when room is unoccupied • Disables air conditioning when window is open • Maximum/minimum setpoint temperature configurable

Easy remote control: The hotel customer will have access to limited functions to control the air conditioning:
 ON/OFF, Temperature (under a certain limit fixed during the start up) and Fan speed

Easy set up: Stand-Alone model with easy configuration menu to access all parameters. The installation is simplified as all the cables should arrive to the remote control. A pre-define scenario can be uploaded on the remote control connected to a computer to make installation on site plug and play (only on the Modbus and LonWorks models).



Control to integrate all room hotel needs in one device:

Card switch. Heating and cooling control.
Light control. Window control. Possible to connect to Modbus



1. Indoor unit. Variable static pressure hide away

2. Room card switch*



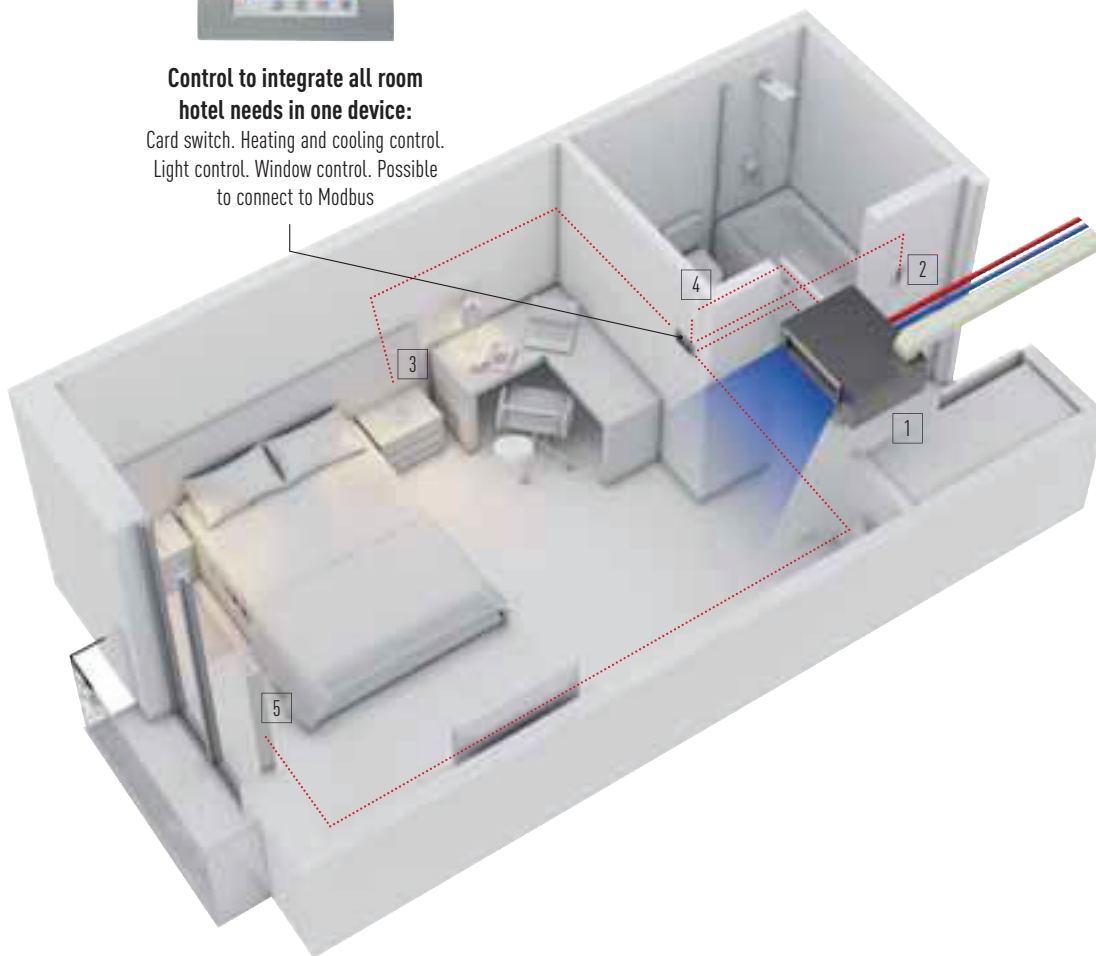
3. Lighting control



4. Econavi sensor

5. Window contact*

* Field supply



Four preconfigured systems (option 1 to 4)

The remote control have a 4 preconfigured systems in order to easily integrate it.

4 options available I/O configurations: Inputs

Configurations	Digital 1-2	Digital 3-4	Digital 5-6	Analog 7-8
Option 1	Card	Window	Lighting	Temperature
Option 2	Card	Window	Blinds Up	Blinds Down
Option 3	Motion Sensor	Window	Door Contact	Temperature
Option 4	Lighting	Window	Blinds Up	Blinds Down

Available I/O Configurations: Outputs

Configurations	Relay 15-16	Relay 13-14	Relay 11-12	Relay 9-10
Option 1	Courtesy	Lighting	Not Used	Valve actuator
Option 2	Courtesy	Lighting	Blinds Up	Blinds Down
Option 3	Courtesy	Lighting	Not Used	Valve actuator
Option 4	Not used	Lighting	Blinds Up	Blinds Down

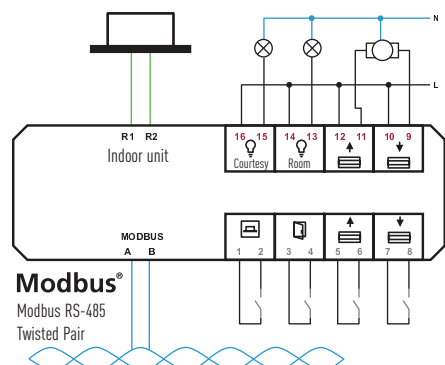
I/O Definitions: Inputs

Description	Functionality
Card	Occupancy room status. Enable HVAC Control and automatically switches ON Courtesy and Lighting outputs
Window	Temporary disables HVAC System
Lighting	Pushbutton to turn ON/OFF Lighting Output when room occup.
Temperature	Analog input for Valve Actuator output control on 2nd zone
Blinds Up	Pushbutton for Blind Up motor output control
Blinds Down	Pushbutton for Blind Down motor output control
Motion Sensor	In combination with Door Contact, enables HVAC Control and automatically switches ON Courtesy and Lighting outputs
Door Contact	In combination with Motion Sensor, enables HVAC Control and automatically switches ON Courtesy and Lighting outputs

I/O Definitions: Outputs

Description	Functionality
Courtesy	Automatically turns ON when room changes to occupied or unoccupied mode. It turns to OFF after a configurable time-out
Lighting	Automatically turns ON/OFF when room changes to occupied/unoccupied. Manual override with Lighting input
Valve Actuator	HVAC Control for a 2nd zone
Blinds Up	Output for Blind Up motor control
Blinds Down	Output for Blind Down motor control

Example I/O: Wiring configuration for Option 2



Example I/O: Option 2

Terminals	Description	Type
A, B	Modbus RS-485	Bi-directional
R1, R2	Indoor Unit	Bi-directional
1, 2	Card contact	Digital Input
3, 4	Window Contact	Digital Input
5, 6	Blinds Up	Digital Input
7, 8	Blinds Down	Analog Input
9, 10	Blinds Down	Relay Output
11, 12	Blinds Up	Relay Output
13, 14	Lighting Room	Relay Output
15, 16	Lighting Courtesy	Relay Output

Panasonic Reference

PAW-RE2C3-WH	Stand-Alone with I/O White frame
PAW-RE2C3-GR	Stand-Alone with I/O Grey Frame
PAW-RE2C3-MOD-WH	Modbus RS-485 with I/O White frame
PAW-RE2C3-MOD-GR	Modbus RS-485 with I/O Grey frame
PAW-RE2C3-LON-WH	LonWorks TP/FT-10 with I/O White frame
PAW-RE2C3-LON-GR	LonWorks TP/FT-10 with I/O Grey frame

Individual Control Systems

High-spec wired remote controller (CZ-RTC3)

NEW



- Power consumption monitor (only for PACi)
- Flat face design & Touch sensor switch for stylish design and operating usability
- New functions such as for Energy saving & monitoring and for Service use are available on the Full dot LCD (3,5" display)
- Improved illumination
- White LED backlit
- Blink when alarm occurs

BASIC OPERATION

- Operation
- Mode
- Temperature setting
- Airflow volume
- Airflow direction

ENERGY SAVING

- Outing function
- Temperature setting range limitation
- Temperature auto return
- OFF remind
- Schedule demand control
- Energy saving mode
- Energy monitoring

OTHERS

- Key lock
- Ventilation fan control
- Display contrast adjustment
- Remote controller sensor
- Quiet operation mode
- Prohibit setting control from Central controller

TIMER FUNCTION

- Outing function
- Weekly Program timer
- Easy ON/OFF timer
- Time display

* Several functions can not use on some outdoor unit. Ex. Power consumption monitor is not available for PACi Standard, Big PACi and PACi Elite 50 type.

Timer remote controller (CZ-RTC2)



- Time Function 24 hours real time clock (week day indicator)
- Weekly programme function (a maximum of 6 actions can be programmed for each day)
- Sleeping function (this function controls the room temperature for comfortable sleeping)
- Maximum 8 indoor units can be controlled from one remote controller
- Remote control by main remote controller and sub controller is possible (maximum 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit)
- Possible to connect to the outdoor unit using PAW-MRC cable for servicing purposes

- Outing function (this function can prevent the room temperature from dropping or rising when the occupants are out for a long time)

Basic remote controller ON/OFF

- Operation mode changeover (Cooling, Heating, Dry, Auto, Fan)
- Temperature setting (Cooling / Dry: 18-30°C Heating: 16-30°C)
- Fan speed setting High / Medium / Low and Auto
- Air flow direction adjustment

Dimensions (H x W x D): 120 x 120 x 16mm

Wireless remote controller



CZ-RWSU2
For 4 Way 90x90 Cassette.



CZ-RWSL2
For 2 Way Cassette.



CZ-RWSK2
For Wall Mounted and 4 Way 60x60 Cassette (with panel CZ-KPY3A).



CZ-RWST2
For 1 Way Cassette.



CZ-RWST3
For Ceiling.



CZ-RWSK2 + CZ-RWSC3
Combination for all indoor units.



- Easy installation for the 4 Way cassette type simply by replacing the corner part
- 24 hour timer function
- Remote control by main remote controller and sub controller is possible (Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit)
- When CZ-RWSC3 is used, wireless control becomes possible for all indoor units (1: when a separate receiver is set up in a different room, control from that room also becomes possible. 2: automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted)
- Operation of separate energy recovery ventilators (When commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote control (interlocked operation with the indoor unit or independent ventilation ON/OFF))

Simplified remote controller (CZ-RE2C2)



A remote controller with simple functions and basic operation

- Suitable for open rooms or hotels where detailed functions are not required
- ON/OFF, operation mode switching, temperature setting, air speed switching, air flow direction setting, alarm display, and remote controller self-diagnosis can be performed

- Batch group control for up to 8 indoor units
- Remote control by main remote controller and sub controller is possible with a simplified remote controller or a wired remote controller (up to two units)

Dimensions (H x W x D): 120 x 70 x 16mm

Backlit remote controller (CZ-RELC2)



Backlit remote controller with simple and friendly operation

- ON/OFF, operation mode switching, temperature setting, air speed switching, air flow direction setting, alarm display can be performed. LCD backlit display

- Built-in temperature sensor and batch group control for up to 8 indoor units
- Sub remote controller can not be used

Dimensions (H x W x D): 120 x 70 x 16mm

Remote sensor (CZ-CSRC2)



- This remote sensor can be connected to any indoor unit. Please use it to detect the room temperature when no remote controller sensor or body sensor is used (connection to a system without a remote controller is possible)

- For joint use with a remote control switch, use the remote control switch as main remote controller
- Batch group control for up to 8 indoor units

Control contents	Part name, model No.	Quantity
Standard Control	Timer remote controller: CZ-RTC2 Wired remote controller: CZ-RE2C2 // CZ-RELC2 Wireless remote controller: CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2 // CZ-RWSK2 // CZ-RE2C2	1 unit each
(1) Group control	Timer remote controller: CZ-RTC2 Wired remote controller: CZ-RE2C2 Wireless remote controller: CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2 // CZ-RWSK2 // CZ-RE2C2	1 unit
(2) Main/sub remote control	Main or sub. Timer remote controller: CZ-RTC2 Wireless remote controller: CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2 // CZ-RWSK2 // CZ-RE2C2	As required

Centralised Control Systems

Schedule timer (CZ-ESWC2)



The power supply for the schedule timer is taken from one of the following.

1. Control circuit board (T10) of a nearby indoor unit (power supply wiring length: within 200 m from the indoor unit).
2. System controller (power supply wiring length: within 100 m from the indoor unit).

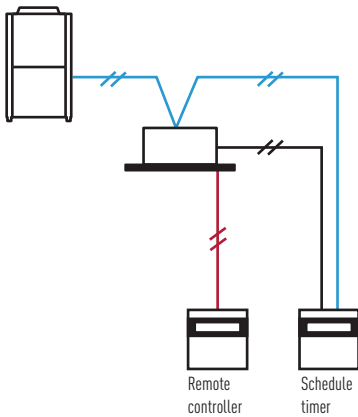
When the power supply for the schedule timer is taken from the control circuit board of the indoor unit, that indoor unit cannot be used with other control devices using the CZ-T10 terminal. As operation mode and temperature settings are not possible with the schedule timer, it must be used together with a remote controller, a system controller, an intelligent controller, etc. Also, as it does not have an address setting function, the control function of a system controller etc. must be used for address setting.

- Up to 64 groups (maximum 64 indoor units) can be controlled divided into 8 timer groups

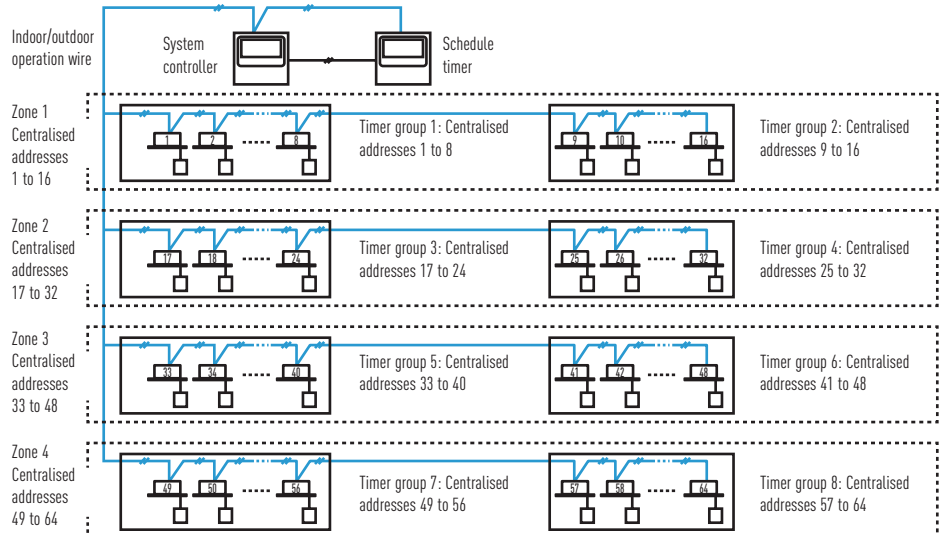
- Six program operations (Operation/Stop/Local permission/Local prohibition) per day can be set in a program for one week
 - Only operation or stop, remote controller local permission or remote controller local prohibition, and their respective combinations are possible. (Operation + local permission, stop + local prohibition, only local permission, etc.)
 - Local prohibition and the combination of the three items of temperature setting, mode change, and operation/stop can be set at the time of installation.
- A function for pausing the timer in case of national holidays has been added, and timer operation also can be stopped for a long time
 - By setting holidays or operation stop within one week, the timer can be paused just for that week.
 - All timer settings can be stopped with the timer "ON/OFF effective" button. (Return to timer operation is made by pressing the button again.)

Dimensions (H x W x D): 120 x 120 x 16mm.

Connection example 1 (power supply from the indoor unit)



Connection example 2 (power supply from the central controller)



ON/OFF controller (CZ-ANC2)



- 16 groups of indoor units can be controlled.
- Collective control and individual group (unit) control can also be performed.
- Up to 8 ON/OFF controller (4 main, 4 sub) can be installed in one link system.
- The operation status can be determined immediately.

Note: As operation mode and temperature settings are not possible with the ON/OFF controller, it must be used together with a remote controller, a system controller etc.

Dimensions (H x W x D): 121 x 122 x 14 + 52mm (embedding dimension).

Power supply: AC 220 to 240 V.

I/O part: Remote input (effective voltage: within DC 24 V):

All ON/OFF.

Remote output (allowable voltage: within DC 30

V): All ON, All alarm.

System controller (CZ-64ESMC2)



Individual control is possible for max. 64 groups, 64 indoor units.

Control of 64 indoor units divided into 4 zones. (One zone can have up to 16 groups, and one group can have up to 8 units.)

Control is possible for ON/OFF, operation mode, fan speed, air flow direction (only when used without a remote controller), operation monitoring, alarm monitoring, ventilation, remote controller local operation prohibition, etc.

Individual All operations are possible from the remote controller. However, the contents will be changed to the last settings used on the controller.

Central 1 The remote controller cannot be used for ON/OFF. (All other operations are possible from the remote controller.)

Central 3 The remote controller cannot be used for mode change or temperature setting change. (All other operations are possible from the remote controller.)

Central 4 The remote controller cannot be used for operation mode change. (All other operations are possible from the remote controller.)

Joint use with a remote controller, an intelligent controller, a schedule timer, etc. is possible

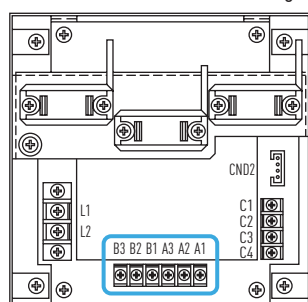
(The maximum number of connectable system controllers is 10, including other central controllers on the same circuit.)

(In case of joint use with a wireless remote controller, there are limitations for the control mode. Please use only with "Individual" and "Central 1".)

Control of systems without a remote controller and of main/sub systems (a total of up to 2 units) is possible

External Contacts On Central Controllers

Terminals for remote monitoring:



- A1) Input for turning ON air conditioners concurrently
- A2) Input for turning OFF air conditioners concurrently
- A3) Common input for turning air conditioners ON or OFF
- B1) On operation state indicator output
- B2) Alarm indicator output
- B3) Common indicator output

A control mode corresponding to the use condition can be selected from 10 patterns

A. Operation mode: Central control mode or remote control mode can be selected

Central control mode: The system controller is used as centralised control device. (Setting from a remote controller can be prohibited by prohibiting local operation from the system controller.)

Remote control mode: The system controller is used as a remote controller. (Setting from the system controller can be prohibited by prohibiting local operation from another central control unit.)

B. Controlled unit number mode: All mode or zone 1, 2, 3, 4 mode can be selected

All mode: All, zone, or group unit can be selected.

Zone 1, 2, 3, 4 mode: Setting is possible only for the indoor units of zone 1, 2, 3, or 4.

Connection example		A Operation mode	
		Central control mode	Remote control mode
B Controlled unit number mode	All mode	All central control. Example 1	All remote control
	Zone 1 mode	Zone 1 central control. Example 2	Zone 1 remote control
	Zone 2 mode	Zone 2 central control	Zone 2 remote control. Example 3
	Zone 3 mode	Zone 3 central control. Example 4	Zone 3 remote control
	Zone 4 mode	Zone 4 central control	Zone 4 remote control. Example 5

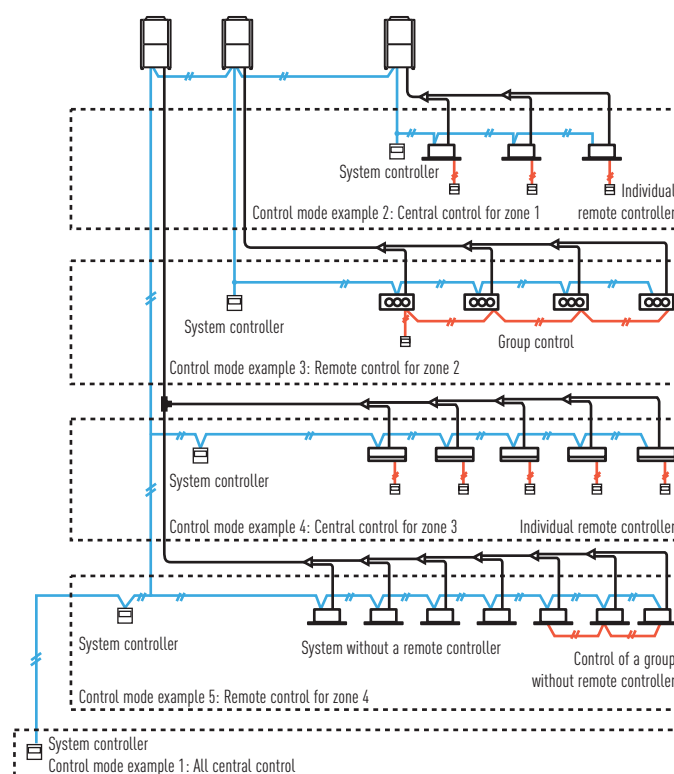
Dimensions (H x W x D): 120 x 120 x 21 + 69mm (embedding dimension).

Power supply: AC 220 to 240 V.

I/O part: Remote input (effective voltage: DC 24 V): All ON/ALL OFF

Remote output (voltage-free contact): All ON/ALL OFF (external Power supply within DC 30 V, maximum 1 A).

Total wiring length: 1 km.



Centralised Control Systems

Intelligent controller (CZ-256ESMC2)

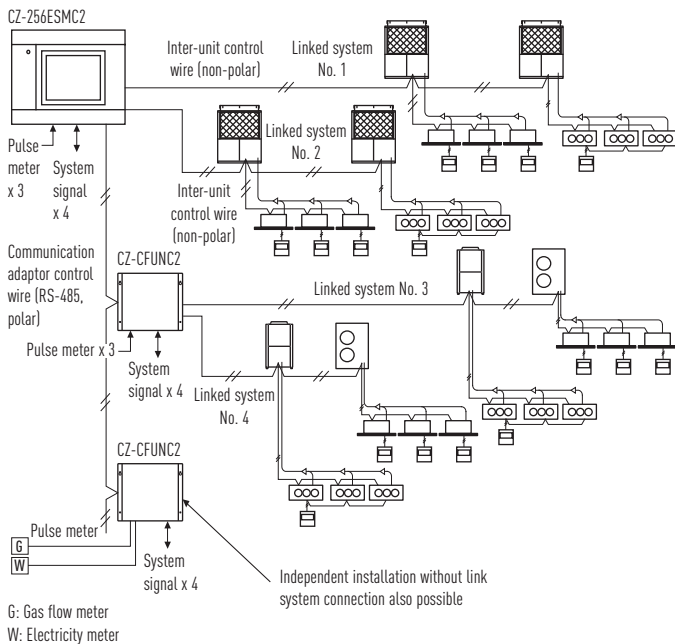


**TOUCH
PANEL**

Web application



System Configuration Example



Maximum number of connections	Indoor units: 256 (64/link x 4)
	Outdoor units: 120 (30/link x 4)
	Communication adaptors: 7
	Link systems (Inter-unit control wires): 4

Limitation contents for prohibited operation

Prohibition means limiting the operations possible from the remote controller. It is also possible to change the prohibition items.

Limitation contents (Limitations can be user defined)

- Individual No limits are set for the remote controller operation. However, the contents will be changed to the controller's last settings. (Last-pressed priority.)
- Prohibition 1 The remote controller cannot be used for ON/OFF. (All other operations are possible from the remote controller.)
- Prohibition 2 The remote controller cannot be used for ON/OFF, operation mode change and temperature setting. (All other operations are possible from the remote controller.)
- Prohibition 3 The remote controller cannot be used for operation mode change and temperature setting. (All other operations are possible from the remote controller.)
- Prohibition 4 The remote controller cannot be used for operation mode change. (All other operations are possible from the remote controller.)

Note: Avoid joint use of the AMY system and the intelligent controller on the same indoor/ outdoor operation line.

- Max. 256 indoor units (4 systems x 64 units) can be controlled. In case of three or more systems, a communication adaptor CZ-CFUNC2 must be installed on the outside
- Operation is possible as batch, in zone units, in tenant and in group units
- ON/OFF, operation mode setting, temperature setting, fan speed setting, air flow direction setting (when used without a remote controller), and remote controller local operation prohibition (prohibition 1, 2, 3, 4)
- A system without a remote controller is possible. Joint use with a remote controller or a system controller is also possible
- Use of a schedule timer and holiday setting also can be done
- Proportional distribution of the air conditioning energy is possible. Including CSV-file export via CF-card (supplementary accessory)
- Pulse signal input from electric/gas consumption meter

In case of joint use with a wireless remote control system, there are limitations for the control mode. Please use only with "Permission" and "Prohibition 1".

Dimensions (H x W x D): 240 x 280 x 138mm.

Power supply: AC 100 to 240 V (50 Hz), 30 W (separate power supply).

I/O part: Remote in put (voltage-free contact): All ON/OFF.

Remote output (voltage-free contact): All ON, All alarm (external power supply within DC 30 V, 0.5 A).

Total wiring length: 1 km for each system.

Only for embedding in the panel.

CZ-CBPCC2: Additional back up memory for CZ-256ESMC2.

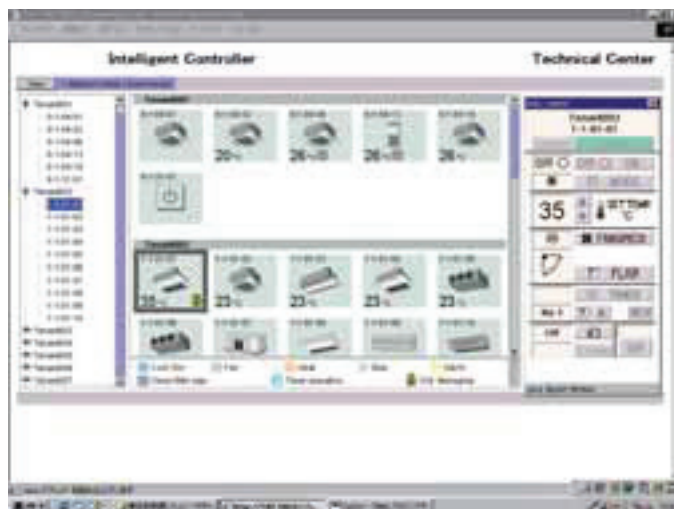
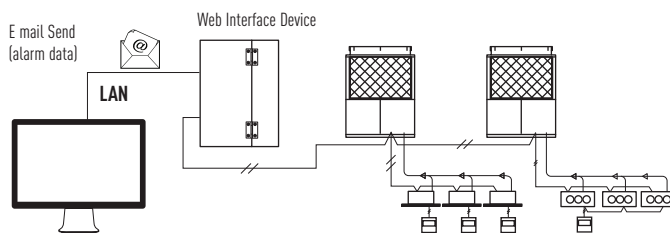
Web Interface (CZ-CWEBC2)

Functions

- Access and operation by Web browser.
- Icon display.
- Language codes available in English, French, German, Italian, Portuguese, Spanish.
- Individual control possible (max. 64 indoor units) ON/OFF operation mode, set temperature, fan speed, Flap set, timer ON/OFF alarm code monitoring, prohibit Remote Control.
- Zone control*.
- All Units control.
- Alarm Log.
- Mail Sent Log.
- Program Timer set 50 daily timers with 50 actions each day, 50 weekly timers 50 weekly timers, 1 holiday timer, 5 special day timers, for each tenant
- Prohibit Remote Control settings.
- IP ADDRESS could be changed via Internet.



(HxWxD): 248x185x80mm
AC 100 to 240 V (50/60Hz), 17 W
(Separate power supply)



Note: It is recommended to install a remote controller or a system controller on site to enable local control if it network experience a problem.

Easy to set to every room by recognizable icon and user-friendly remote control window

- If any of the indoor units is selected, the remote control window shown will be displayed for detailed setting modifications.

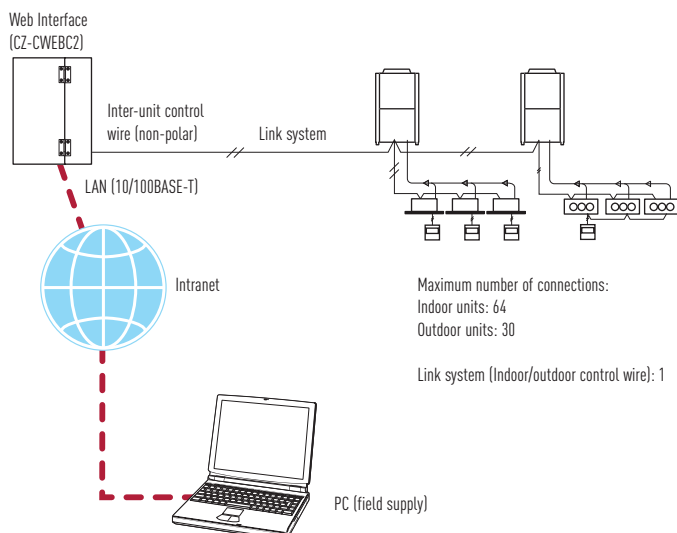
Easy to manage and monitor each tenant use*

- Each floor or tenant, otherwise each zone can be displayed and controlled.
- All unit statuses can also be displayed on one screen.

Program Timer set

- 50 daily timers with 50 actions each day, 50 weekly timers, holiday timer, 5 special day timers, for each tenant.

* Web interface system not applicable for load distribution.



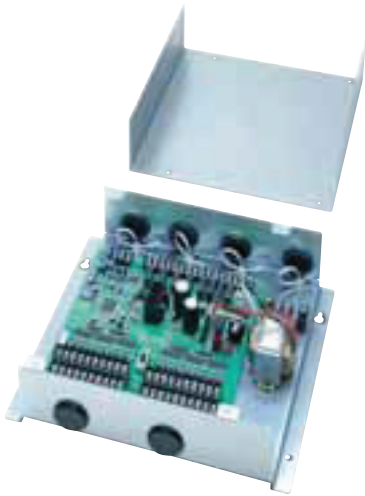
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- Access and operation by Web browser.
- Icon display.
- Language codes available in English, French, German, Italian, Portuguese, Spanish.
- Individual control possible (max. 64 indoor units) ON/OFF operation mode, set temperature, fan speed, Flap set, timer ON/OFF alarm code monitoring, prohibit Remote Control.
- Each Tenant (Zone) control.
- All Units control.
- Alarm Log.
- Mail Sent Log.
- Program Timer set 50 daily timers with 50 actions each day, 50 weekly timers 50 weekly timers, 1 holiday timer, 5 special day timers, for each tenant.
- Prohibit Remote Control settings.
- IP Address could be changed via Internet.

Note: it is recommended to install a remote controller or a system controller on site to enable local control if IT network experience a problem.

Centralised Control Systems

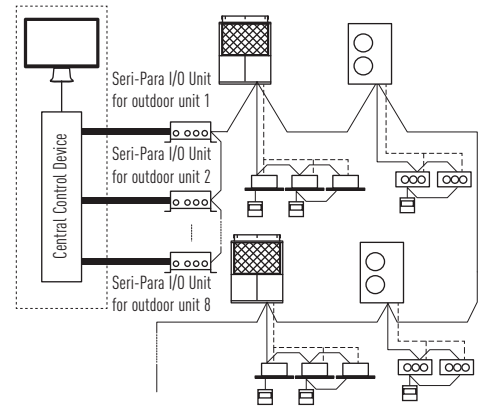
Seri-Para I/O unit for outdoor unit (CZ-CAPDC2 for ECOi / CZ-CAPDC3 for Mini ECOi and PACi)



- This unit can control up to 4 outdoor units.
- From the central control device, mode changing and batch operation/batch stop are possible.
- Required for demand control.

Dimensions (H x W x D): 80 x 290 x 260mm.
 Power supply: Single Phase 100/200V (50/60Hz), 18W.
 Input: Batch operation/Batch stop (non-voltage contact/DC 24 V, pulse signal). Cooling/Heating (non-voltage contact/static signal). Demand 1/2 (non-voltage contact/static signal) (Local stop by switching)
 Output: Operation output (non-voltage contact).
 Alarm output (non-voltage contact)

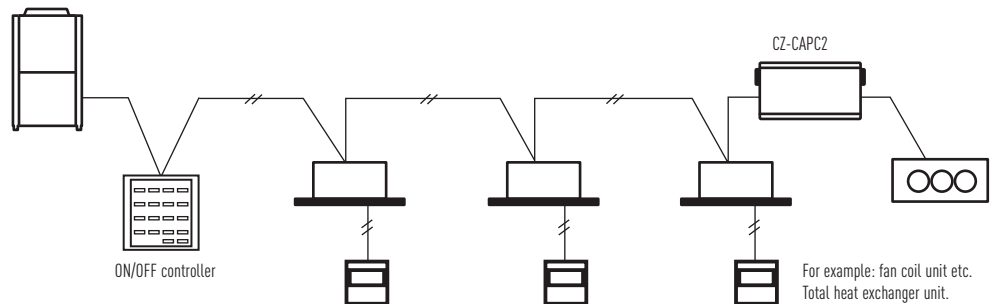
Wiring length: Indoor/Outdoor operation lines: Total length 1 km. Digital signal: 100 m or shorter



Local adaptor for ON/OFF control (CZ-CAPC2)

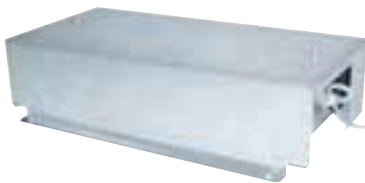


- Control and status monitoring is possible for individual indoor unit (or any external electrical device up to 250 V AC, 10 A) by contact signal.



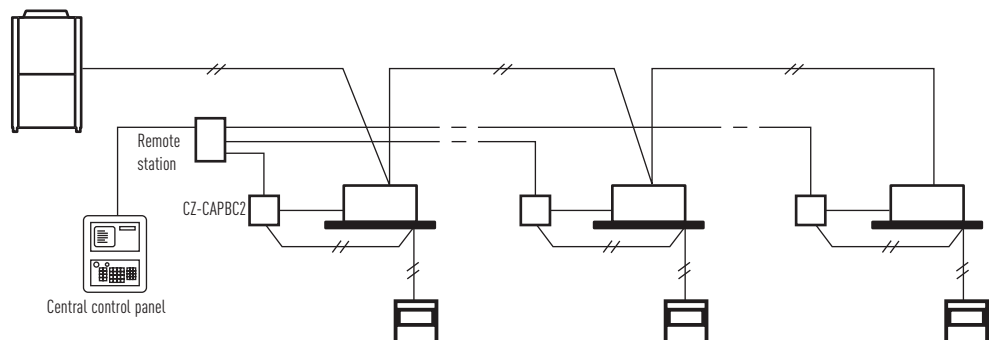
Demand Control 0 -10 V (CZ-CAPBC2)

NEW



- Control and status monitoring is possible for individual indoor unit (1 group).
- In addition to operation and stop, there is a digital input function for air speed and operation mode.
- Temperature setting and measuring of the indoor suction temperature can be performed from central monitoring.
- **NEW!** The analog input for demand of the outdoor capacity by 20 steps (from 40% to 120%) by 0-10V.
- The analog input for temperature setting is 0 to 10 V, or 0 to 140 Ohm.
- Power is supplied from the CZ-T10 terminal of the indoor units.
- Separate power supply also is possible (in case of suction temperature measuring).

* Available in April. Ask to your distributor.



P-AIMS. Panasonic Total Air Conditioning Management System

P-AIMS Basic software / CZ-CSWK2

Up to 1024 indoor units can be controlled by one PC.

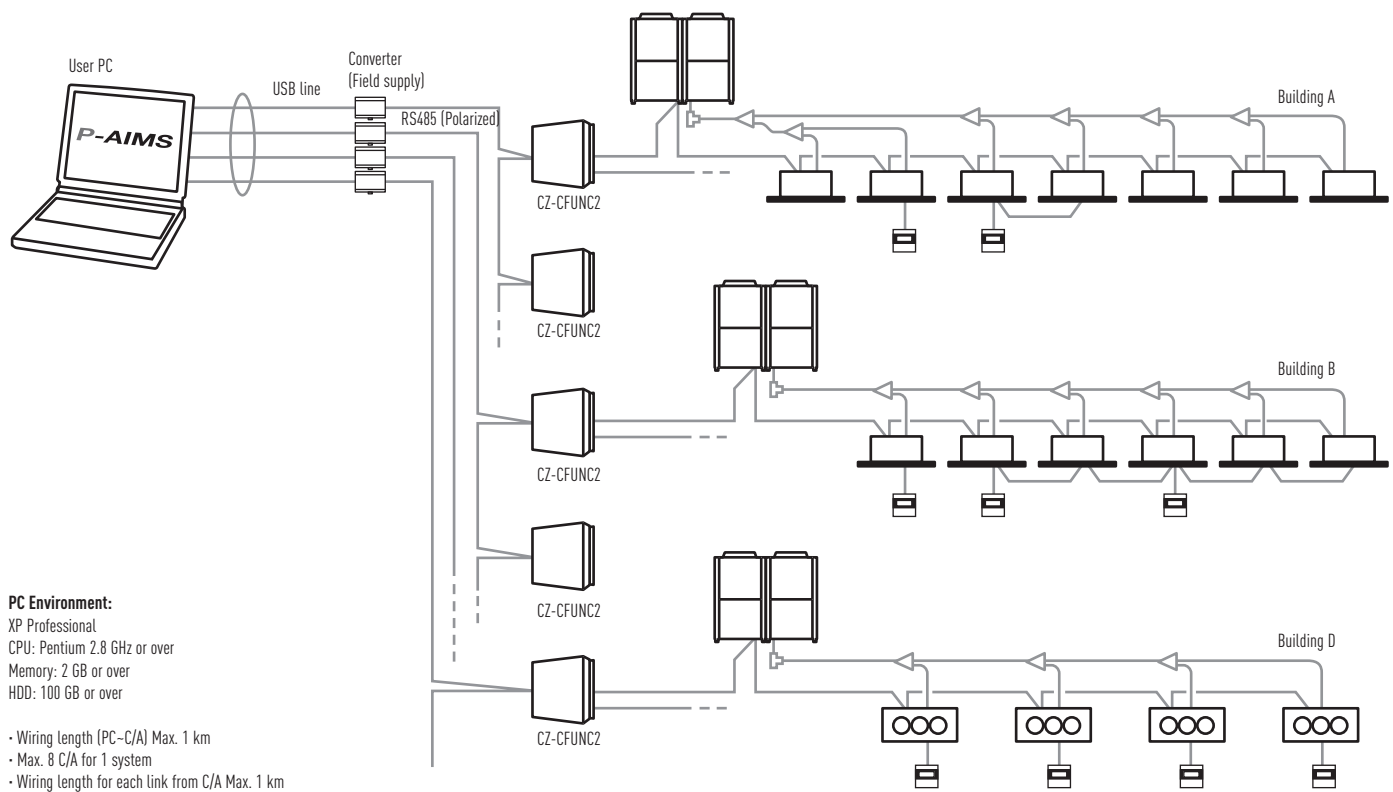
Functions of basic software

- Standard remote control for all indoor units.
- Many timer schedule programs can be set on the calendar.
- Detailed information display for alarms.
- CSV file output with alarm history, operating status.
- Automatic data backup to HDD.



With 4 upgrade packages the basic software can be upgraded to suit individual requirements

P-AIMS is suitable for large shopping centers and universities with many areas/ buildings. 1 "P-AIMS" PC can have 4 independent systems at once. Each system can have max. 8 C/A units, and control max. 512 units. In total, 1024 indoor units can be controlled by 1 "P-AIMS" PC.



P-AIMS optional software CZ-CSWAC2 for Load distribution Load distribution calculation for each tenant

- Air-conditioner load distribution ratio is calculated for each unit (tenant) with used energy consumption data (m³, kWh).
- Calculated data is stored as a CSV type file.
- Data from the last 365 days is stored.

P-AIMS optional software CZ-CSWWC2 for Web application Web access & control from remote station

- Accessing P-AIMS software from remote PC.
- You can monitor/operate ECOi 6N system by using Web browser (Internet Explorer).

P-AIMS optional software CZ-CSWGC2 for Object layout display Whole system can be controlled visually

- Operating status monitor is available on the layout display.
- Object's layout and indoor unit's location can be checked at once.
- Each unit can be controlled by virtual remote controller on the display.
- Max. 4 layout screens are shown at once.

P-AIMS optional software CZ-CSWBC2 for BACnet software interface Connectable to BMS system

- Can communicate with other equipment by BACnet protocol.
- ECOi 6N system can be controlled by both BMS and P-AIMS.
- Max. 255 indoor units can be connected to 1 PC (that has P-AIMS basic & BACnet software).

Centralised Control Systems

NEW



NEW Centralised Control Systems

A custom web application to manage the centralized operation of A2W and GHP systems.

Operation and monitoring of devices connected to the new Management System can be realized both remotely/locally from any device with connection to the internet (Laptop, Tablet, Mobile)

The new system will make the interaction with air conditioning systems easier, improving the operation set as well as the global control of installations.

The application will act with various units, regardless of whether they are available in the same intranet or in different locations, transparently to users at any time. In this way, our solution allows to overcome main restrictions like onsite maintenance or the lack of centralization.

In addition, the application offers significant improvements in terms of control:

- Aircon units can be grouped in a totally custom way
- Possibility to realize group commands and batch commands (in succession)
- Alarms and events can be controlled more efficiently and a lot more...

Features of current system

Operation Functions

- Start & Stop
- Temperature settings
- Operation mode selection
- Fan speed, Fan direction settings
- Prohibition of use of remote controller

Operation Monitoring

- Monitoring of operation status and alarms
- Monitoring of filter cleaning signs
- Display of alarm logs

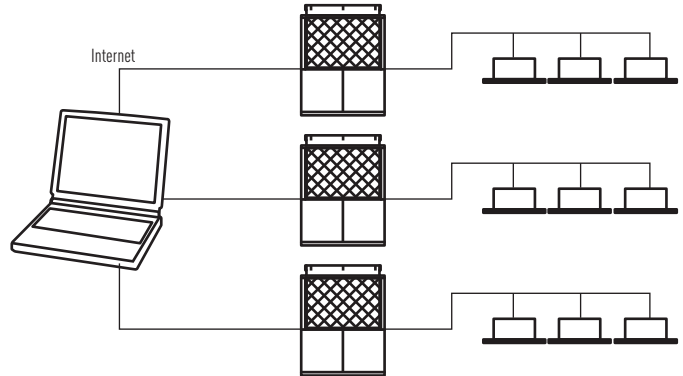
Program Timers

- Up to 50 types of weekly timer
- Holiday and Special Days

Offer reliable solution to improve existing functionalities

- Running timer
- Remote control through Web Cloud Application or local. Accessible anytime, anywhere, via a device with internet connection
- Centralized Control: Manage several installations in one single interface. Ideal for multi-site organizations
- Easy monitoring and maintenance thanks to group commands, and batch commands. Easy supervision of complex installations
- Secure Remote Access. Powerful identity protection and convenient access control

Current installation



Main restrictions: Decentralization: need to connect to every CZ-WEB one by one to manage installation.
On-site maintenance: Access limited to local network.

Benefits

The new solution for the centralized control of air conditioning systems offers significant benefits for the different actors involved in its management:

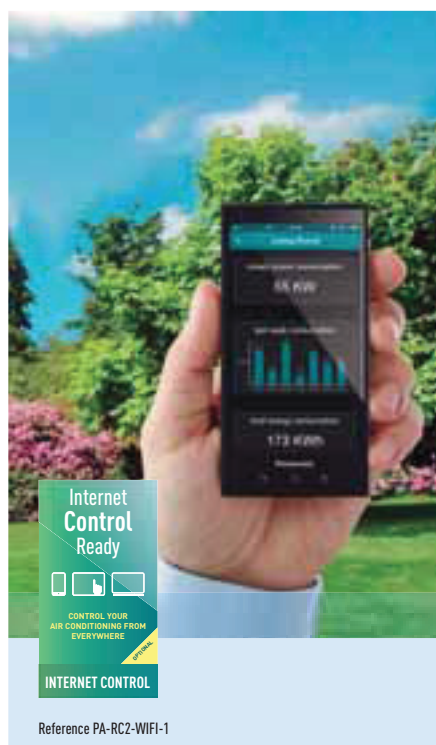
For the building Ownership:

- Maximum equipment performance
- Energy saving
- Increased lifetime of equipment
- Savings in maintenance costs

For Maintenance companies:

- Instant knowledge of any incident
- Possibility of preventive alarms
- Reduction of systematic visits (warning and remote control)
- More effective maintenance support

Internet Control. Control your air conditioning system with your smart device -smartphone & internet for VRF Systems



KX-UT670 Smart Desktop Phone from Panasonic.

Control your comfort and efficiency with the lowest energy consumption

What's Internet Control?

Internet Control is a next generation system providing a user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

Simple Installation

Just connect the Internet Control device to the air conditioner or heat pump with the supplied wire and then link it to your WIFI Access point.

Internet Control. Easy to install. Maximum benefit

Internet Control is underlined with the slogan "Your home in the cloud", meaning a simple and easy to handle solution has been considered for every user to manage the device, not requiring any communication or computer skills.

No servers. No adaptors. No wires. Just a small box is needed to be connected and placed close to the air conditioning indoor unit... and your smartphone, tablet or PC.

Start the App from your smartphone device, your tablet or your computer, and enjoy a new experience in comfort. An intuitive and user-friendly application on the screen of your smartphone or PC that lets you manage the air conditioning unit in the same way you do with the remote controller. Internet Control can be downloaded in Apple's AppStore and Android's PlayStore.

Control your air conditioning with the smart internet control device via smartphones, tablet, PC and smart desktop phone via internet

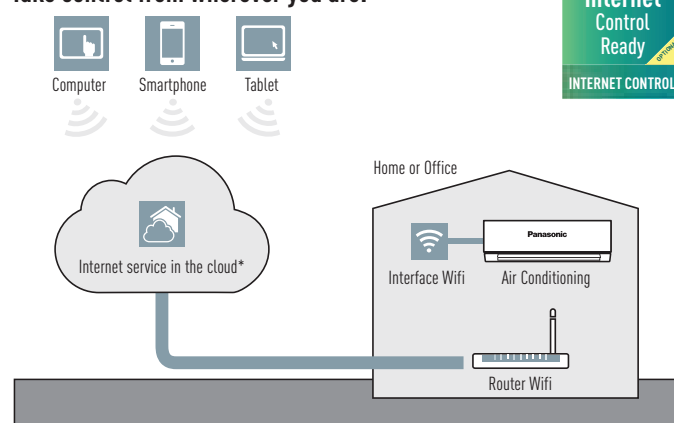
Offering the same functions as if you were at home or office: start/stop, Mode Operation, Set Temperature, Room Temperature etc as well as the new, advanced functionality provided by Internet Control to achieve the best comfort and efficiency with the lowest energy consumption.



Case Study. Paul, Business Man

"My business is growing but I still want to feel like I'm in control. So I carry out all the arrangements, transactions and operations I can from my mobile. From bank transactions, processing orders, to controlling the temperature at the company's different plants; I do everything from my smartphone thanks to IntesisHome and Panasonic."

Take control from wherever you are!



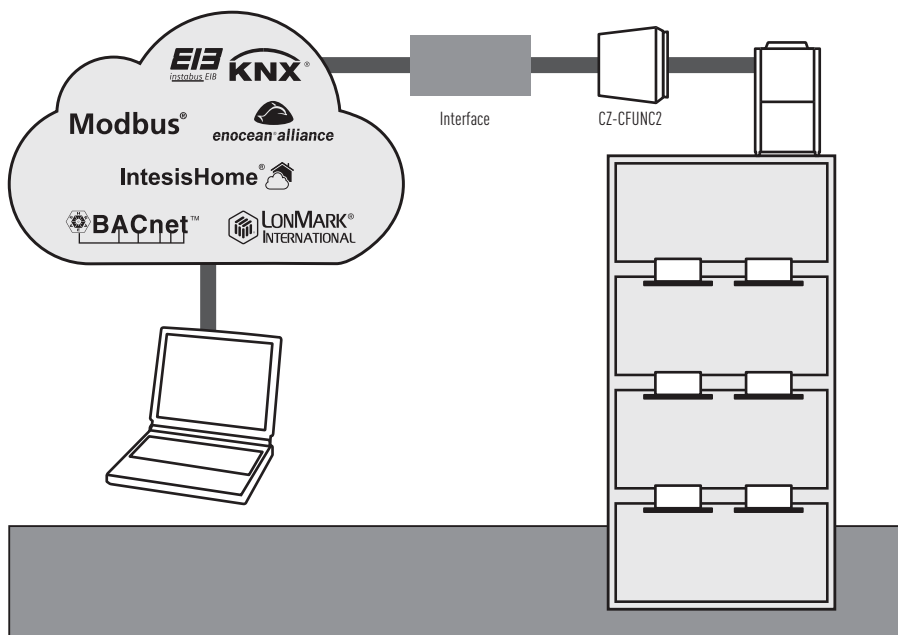
* Functionalities depend on the license. The information indicated above is subject to changes and updates.

ECOi and GHP Connectivity. New Plug and play interface connected directly to the P-Link



Great flexibility for integration into your KNX / EnOcean / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. Panasonic Partners have designed solutions specifically for Panasonic air conditioners, and provide complete monitoring, control and full functionality of the entire Commercial line-up from KNX / EnOcean / Modbus / LonWorks / BACnet installations. For more information, contact Panasonic.

Easy control by BMS
CONNECTIVITY



Communication adaptor (CZ-CFUNC2)

This communication interface is required to connect a ECOi and GHP systems to a BMS. An additional interface is needed to convert the information into KNX/Modbus/Bacnet language. CZ-CFUNC2 is very easy to operate and to connect to the Panasonic P-link, which is the ECOi bus. From the CZ-CFUNC2, all the indoor and outdoor units of the installation can be easily control. Two linked wiring systems can be connected to one CZ-CFUNC2.

Dimensions: H 260 x W 200 x D 68mm

* As this is not a splash-proof design, it must be installed indoors or in the control panel, etc.

	Panasonic Model name	Interface	Connected on P-link or in the indoor unit	Maximum number of indoor units connected
ECOi / PACi Indoor Units	PAW-RC2-KNX-1i	KNX	Indoor unit	1 (1 Group of Indoor units)
	PAW-RC2-MBS-1	Modbus RTU*	Indoor unit	1 (1 Group of Indoor units)
	PAW-RC2-ENO-1i	EnOcean	Indoor unit	1 (1 Group of Indoor units)
	PA-RC2-WIFI-1	IntesisHome	Indoor unit	1 (1 Group of Indoor units)
ECOi P-Link	PAW-AC-KNX-64	KNX**	P-link	64
	PAW-AC-KNX-128	KNX**	P-link	128
	PAW-TM-MBS-RTU-64	Modbus RTU**	P-link	64
	PAW-TM-MBS-TCP-128	Modbus TCP**	P-link	128
	PAW-AC-BAC-64	Bacnet**	P-link	64
	PAW-AC-BAC-128	Bacnet**	P-link	128
	CZ-CLNC2	Lonworks	P-link	16 groupes of max. 8 indoor units, in total max. 64 indoor units

* Interface Modbus RTU/TCP is needed in case if Modbus TCP connection. PAW-MBS-TCP2RTU (ModBus RTU Slave devices).

** Interface CZ-CFUNC2 needed.